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Vimentin (RV202): sc-32322

BACKGROUND

Cytoskeletal intermediate filaments (IFs) constitute a diverse group of proteins that are expressed in a highly tissue-specific manner. Intermediate filaments are constructed from two-chain, α -helical, coiled-coil molecules arranged on an imperfect helical lattice and have been widely used as markers for distinguishing individual cell types within a tissue and identifying the origins of metastatic tumors. One such intermediate filament protein, Vimentin, is a general marker of cells originating in the mesenchyme. Vimentin is frequently coexpressed with other members of the intermediate filament family, such as the cytokeratins, in neoplasms including melanoma and breast carcinoma.

CHROMOSOMAL LOCATION

Genetic locus: VIM (human) mapping to 10p13; Vim (mouse) mapping to 2 A1.

SOURCE

Vimentin (RV202) is a mouse monoclonal antibody raised against cytoskeletal Vimentin extracts from lens tissue of calf origin.

PRODUCT

Each vial contains 200 μ g IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Vimentin (RV202) is available conjugated to agarose (sc-32322 AC), 500 μ g/0.25 ml agarose in 1 ml, for IP; to HRP (sc-32322 HRP), 200 μ g/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-32322 PE), fluorescein (sc-32322 FITC), Alexa Fluor® 488 (sc-32322 AF488), Alexa Fluor® 546 (sc-32322 AF546), Alexa Fluor® 594 (sc-32322 AF594) or Alexa Fluor® 647 (sc-32322 AF647), 200 μ g/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-32322 AF680) or Alexa Fluor® 790 (sc-32322 AF790), 200 μ g/ml, for Near-Infrared (NIR) WB, IF and FCM.

In addition, Vimentin (RV202) is available conjugated to either PerCP (sc-32322 PerCP) or PerCP-Cy5.5 (sc-32322 PCPC5), 100 tests in 2 ml, for IF, IHC(P) and FCM.

APPLICATIONS

Vimentin (RV202) is recommended for detection of Vimentin of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and flow cytometry (1 μ g per 1 x 10⁶ cells).

Vimentin (RV202) is also recommended for detection of Vimentin in additional species, including bovine.

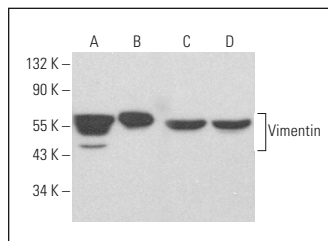
Suitable for use as control antibody for Vimentin siRNA (h): sc-29522, Vimentin siRNA (m): sc-29523, Vimentin siRNA (r): sc-156015, Vimentin shRNA Plasmid (h): sc-29522-SH, Vimentin shRNA Plasmid (m): sc-29523-SH, Vimentin shRNA Plasmid (r): sc-156015-SH, Vimentin shRNA (h) Lentiviral Particles: sc-29522-V, Vimentin shRNA (m) Lentiviral Particles: sc-29523-V and Vimentin shRNA (r) Lentiviral Particles: sc-156015-V.

Molecular Weight of Vimentin: 57 kDa.

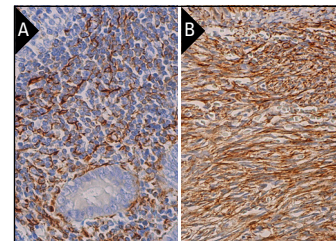
STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

DATA



Vimentin (RV202): sc-32322. Western blot analysis of Vimentin expression in SUP-T1 (A), MOLT-4 (B), RAW 264.7 (C) and WEHI-231 (D) whole cell lysates.



Vimentin (RV202): sc-32322. Immunoperoxidase staining of formalin fixed, paraffin-embedded human appendix tissue showing cytoplasmic and membrane staining of lymphoid cells (A). Immunoperoxidase staining of formalin fixed, paraffin-embedded human ovary tissue showing cytoplasmic and membrane staining of ovarian stroma cells (B).

SELECT PRODUCT CITATIONS

- Izmiryan, A., et al. 2006. Different expression of synemin isoforms in glia and neurons during nervous system development. *Glia* 54: 204-213.
- Park, J.M., et al. 2019. USP44 Promotes the tumorigenesis of prostate cancer cells through EZH2 protein stabilization. *Mol. Cells* 42: 17-27.
- Li, N., et al. 2019. An FBXW7-ZEB2 axis links EMT and tumour microenvironment to promote colorectal cancer stem cells and chemoresistance. *Oncogenesis* 8: 13.
- Flores, L.R., et al. 2019. Lifeact-GFP alters F-Actin organization, cellular morphology and biophysical behaviour. *Sci. Rep.* 9: 3241.
- Fuziwara, C.S., et al. 2019. The highly expressed FAM83F protein in papillary thyroid cancer exerts a pro-oncogenic role in thyroid follicular cells. *Front. Endocrinol.* 10: 134.
- Chang, C.H., et al. 2019. Arecoline promotes migration of A549 lung cancer cells through activating the EGFR/Src/FAK pathway. *Toxins* 11 pii: E185.
- Kim, J.W., et al. 2019. Inhibition of tumor growth and angiogenesis of tamoxifen-resistant breast cancer cells by ruxolitinib, a selective JAK2 inhibitor. *Oncol. Lett.* 17: 3981-3989.
- Thege, F.I., et al. 2019. anti-EGFR capture mitigates EMT- and chemoresistance-associated heterogeneity in a resistance-profiling CTC platform. *Anal. Biochem.* 577: 26-33.
- Gordon, J. and Mowa, CN. 2019. Mechanobiology of mice cervix: expression profile of mechano-related molecules during pregnancy. *Cell Tissue Res.* E-published.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

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